

MDM LOAD IN DIAGNOSTIC STATE (2A-3A)

1. PERFORM PRE-LOAD SANITY CHECK WITH MEMORY MAP AND FILE TO BE LOADED

FMT:LOAD:INITIATOR

If S/W Load

- √SW_Load_XX_EEPROM_XX - (SW Load Version ID, i.e., Rev 2)
- √Memory Location - EEPROM
- √SW_Load_EEPROM_Start_Addr - compatible with Memory Map
- √SW_Load_XX_Wd_Count - compatible with Memory Map

If ADT Load

NOTE

Separate files are required for Loads to non-contiguous memory areas, and also for DRAM and EEPROM Loads.

- √Memory Location - EEPROM
- √ADPXX_EEPROM_Start_Addr - compatible with Memory Map
- √ADPXX_Wd_Count - compatible with Memory Map
- √ADPXX_Ver_Id -
- √ADPXX_Cksum -
- √Destination_Device - MDMXX

2. CONFIGURE FOR COMMAND UPLINK

TELCOM: TBD

If N1-2 is Primary (N1-1 is in Diagnostics)

- √Command_Path-Orbiter/Early Comm
- If uplink path - orbiter (Normal OIU configuration)
- √OIU_Routing_Code -

Send Enable RT Device command to enable N1-1 MDM.

- √N1-1 - Enable RT
- Send Disable NCS Auto Retry on N1-1.
- √N1-2 Auto Retry on N1-1 - Disable

If N1-1 is Primary (N1-2 is in Diagnostics)

- √Command_Path-Orbiter/Early Comm
- If uplink path - orbiter
- Reconfigure the OIU to RT on Bus 3, BC on Bus 4, and Format 002.
- √OIU_Routing_Code -

Send Enable RT Device command to enable N1-2 MDM.

- √N1-2 - Enable RT
- Send Disable NCS Auto Retry on N1-2.
- √N1-1 Auto Retry on N1-2 - Disable

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If both MDMs are in Diagnostics (orbiter must present)
 Uplink Path - OIU
 Reconfigure the OIU to make bus 3/4 BC to the MDM being loaded
 and use format 002.
√OIU_Routing_Code -

3. SEND LOAD FILE

FMT:LOAD:INITIATOR

If SW Load
 cmd_SW_Load_XX_Version XX_Uplink (TBD)
If ADT Load
 cmd_ADP_Load_XX_Uplink (TBD)

NOTE

Send all load cmd files.
Multiple ADP files may be required.

cmd_SW_PT#_Uplink (TBD)
cmd_ADP_XX_cksum _Uplink (TBD)

4. VERIFY COMPLETION OF LOAD

FMT:LOAD:INITIATOR

√FMT_Load_Status - 100% complete

5. REINITIALIZE EEPROM

Go to REINITIALIZE NODE 1 MDMs, all (SODF: ISS OPS).